Sheetless Music Theory

BASIC MUSIC CONCEPTS

Pitch & Tone
A perceived property that allows the ordering of sounds on a frequency scale

Rhythm
Generally means a "strong pattern" using the different durations of **notes** (strong / weak)

Melody
A linear succession of musical **tones** that the listener perceives as a single entity

Harmony
The use of simultaneous pitches, resulting in **chords**

Interval
The difference between two **pitches**

Musical Staff

Treble Clef

Bass Clef

Ledger Lines

Notes are written on the staff and read from left to right. Each note represents a different pitch.

Sharp ♯ Flat ♭

Sharps raise the note pitch by a half step. Flats lower the note pitch by a half step.

NOTES & INTERVALS

It's very important that you learn **intervals** before you learn **chords**.
Intervals are the building blocks and foundation of everything relating to music, and chords are no different than any other.

Harmony / Melody

Notes played simultaneously

Notes played consecutively

A **chord** (usually) is defined by the quality of its intervals (**perfect**, **major** or **minor**) and **number**

Perfect Interval

Minor Interval

Major Interval

Diminish Interval

Augmented Interval

A **semitone** is any interval between two adjacent notes on the keyboard. A **tone** is any interval that is two semitones (or two half steps).

Octave

The distance between two notes of the same name. For example, from one A to the next higher A is an octave. Also, from one C to the next higher C is an octave. And so on.

Sharps

Naturals

Flats

Octaves

The distance between two notes is measured in **steps** and **half steps** (intervals). For example, a half step is the distance from a note to the next note, whether that next note is a black key or a white key.

Whole Step

Half Step

Tones

Semitones

Intervals are measured by the amount of **semitones**

Semitones	Melodic Minor Ascend.	Melodic Ascending
0	Perfect Unison	Perfect Unison
1	Minor 2nd	Minor 2nd
2	Major 2nd	Major 2nd
3	Minor 3rd	Minor 3rd
4	Major 3rd	Major 3rd
5	Perfect 4th	Perfect 4th
6	Augmented 4th	Augmented 4th
7	Perfect 5th	Perfect 5th
8	Minor 6th	Minor 6th
9	Major 6th	Major 6th
10	Minor 7th	Minor 7th
11	Major 7th	Major 7th
12	Perfect Octave	Perfect Octave

Intervals with different names may span the same number of semitones. For example, C to D♭ and C to C♯ are both 1 semitone, but C to D♭ is a **major third**, while that same C to C♯ is **diminished fourth**.

Compound Interval

A simple interval can be reduced (compressed) to within the octave (one octave) above the root note.

In the example above, a C to E (3) is the root interval, and a **major third**.

Consonance — **Dissonance**

Consonance and dissonance are musical terms that refer to the stability, or lack of stability, of musical intervals.

Dissonant intervals are those that cause tension and desire to be resolved to **consonant** intervals.

Basic Scales

Scales are generally considered to span a single octave, with higher or lower octaves simply repeating the **pattern**, which is defined by **scale steps** (intervals in a scale).

1 Octave
5 Semitones

Major Scale
Example: C Major

C D E F G A B C

The major scale (or ionian) scale is one of the most commonly used scales.

The simplest major scale is C major, the only major scale with no require sharps (♯) or flats (♭).

C D E F G A B C

Notes

T T S T T T S

Steps

Other, part or all of a musical piece can be written **using the notes of a single scale**, and the scale's name is then used to represent the piece's overall **key signature**.

A specific scale is defined by the characteristic interval pattern and the **first degree** (tonic) from which the scale is built. The note selected as the beginning of the scale is also used to represent the beginning of the ascending scale pattern.

Major Scale
4th → 5th
7th → 8th

Minor Scale
Example: A Minor

A B C D E F G A

The natural minor scale is also known as **Aeolian** scale.

All key in major scale and a natural minor scale have the same key signature. They are **relative keys**. The natural minor scale starts on the 6th note of its parallel **key signature**.

A B C D E F G A

Notes

T S T T S T T

Steps

A harmonic minor scale is the same as the natural minor scale, except the **seventh note is raised**, and it's usually sometimes.

Every relative minor or a major scale shares the same notes, but start on a different tonic.

These share the same notes, but start on a different tonic.

Minor Scale
2nd → 3rd
6th → 7th

CHORDS

A chord is any harmonic set of **three or more** notes that is heard as if sounding simultaneously.

An arpeggio is a musical technique where notes in a chord are played on by one in succession, rather than by other.

HOW TO CREATE

Triads
(a set of three notes that can be played as a chord)

Example: C major

A chord's quality is defined by its intervals

1 3 5
Root **Third** **Fifth**

C D E F G A B

maj min dim

P5

Examples

Root	Major	Minor	Augmented	Diminished
C	C-E-G	C-E♭-G	C-E-G♯	C-E♭-G♭
D	D-F♯-A	D-F-A	D-F♯-A♯	D-F-A♭
E	E-G♯-B	E-G-B	E-G♯-C	E-G-B♭
F	F-A-C	F-A♭-C	F-A-C♯	F-A♭-B♭
G	G-B-D	G-B♭-D	G-B-D♯	G-B♭-D♭
A	A-C♯-E	A-C-E	A-C♯-F	A-C-E♭
B	B-D♯-F♯	B-D-F♯	B-D♯-G	B-D-F

Chords / Triads
Qualities

Major

Minor

Augmented

Diminished

Rotation

INVERSIONS

A chord's inversion describes the relationship of its bass to the other tones in the chord.

For instance, a C Major triad contains the tones C-E-G and A. Its inversion is determined by which of these tones is the **bottom** note in the chord.

Root Position

1 3 5

First Inversion

3 5 1

An interval is inverted by raising or low-ering either of the notes using displace-ment of the octave, so that both notes still remain.

Second Inversion

5 1 3

In an inverted chord, the root is not in the bass (the lowest note).

KEY SIGNATURES

Tonality is a system/language of music in which specific hierarchical pitch relationships are based on a **key center/signature**

In musical notation, a key signature is a group of sharps or flats placed together on the staff. Key signatures are generally written immediately after the clef at the beginning of a line of musical notation.

Imagine that someone tells you that a certain song's tonality is **E Major**

E Major Scale
E F♯ G♯ A B C♯ D♯ E
T T S T T T S

You are the only one left from the church choir singing and those with which you can create melodies in it.

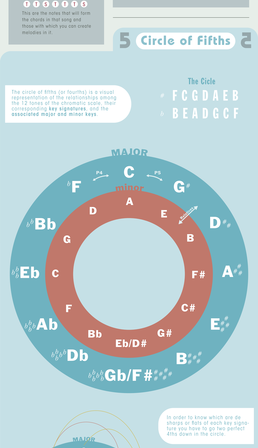
D E F♯ G A B C♯ D
T T S T T T S

D Major Scale

5 Circle of Fifths 2

The circle of fifths (or fourths) is a visual representation of the relationship among the 12 tones of the chromatic scale, their corresponding **key signatures**, and the **associated major and minor keys**.

The Cicle
F C G D A E B
B E A D G C F



In order to know which are de sharps or flats of each key signa-ture you have to go two perfect fifths down in the circle.